

(Country)

(Number)

DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable): is attached hereto X was filed on May 19, 1999 as Application Serial No. <u>09/314,540</u> and amended on _____ (if applicable). was filed as PCT international application No. on _____ and was amended under PCT Article 19 (if applicable). I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledged the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56. I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: **Priority Claimed** Prior Foreign Application(s): (Day/Month/Year/Filed) Yes No (Country) (Number) (Day/Month/Year/Filed) Yes No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(filing date)	(status-patented, pending, abandoned)
(Application Serial No.)	(filing date)	(status-patented, pending, abandoned)
PCT Applications designation	ating the United S	States:
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)
provisional application(s) application is not disclose paragraph of Title 35, Ur which is material to pate	listed below and, ed in the prior United States Code, orability as define	tle 35, United States Code, §119(e) of any United States, insofar as the subject matter of each of the claims of this nited States application in the manner provided by the first §112, I acknowledge the duty to disclose information ed in Title 37, Code of Federal Regulations, §1.56 which of the prior application and the national filing date of this
Provisional Application(s):	
Application Number	Filing Date	Status
Application Number	Filing Date	Status

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of first inventor Roberts Langer	
Inventor's signature	Date:
Residence 77 Lombard Street, Newton, MA 02158	
Citizenship U.S.A.	
Post Office Address MIT, Dept. of Chemical Engineering, I	Room E25-342, Cambridge. MA
Full name of second inventor Scott M. Cannizzaro	
Inventor's signature	Date:
Residence 24 Tracey Road, Cotuit, MA	
Citizenship U.S.A.	
Post Office Address MIT, Dept. of Chemical Engineering, I	Room E25-342, Cambridge. MA
Thus Call discounts a Remband G Mueller	
Full name of third inventor Bernhard G. Mueller	Date: 12/01/1989
Inventor's signature	Batc
Residence Grienstrasse 41, CH-4055 Basel, Switzerland	
Citizenship Switzerland Post Office Address MIT, Dept. of Chemical Engineering, R	
Post Office Address MIT, Dept. of Chemical Engineering, N	COOM D23-342, Camorage, Nav
Full name of fourth inventor Kevin Shakesheff	
Inventor's signature	Date:
Residence 44 South Street, Draycott, Derby, United Kingdor	<u> </u>
Citizenship Switzerland	
Post Office Address MIT, Dept. of Chemical Engineering, F	Room E25-342, Cambridge, MA



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MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS

	n of which (I authori nd fill in the blanks,	ze Choate, Hall & Stewart to c if applicable):	check or	ne of the following,
i	s attached hereto			
_X_v	was filed on <u>May 19</u> Serial No. <u>09/314,540</u>	9, 1999 as Application and amended on		(if applicable).
on on	was filed as PCT int	ernational application Noand was amended under PCT A (if applicable).	Article 1	9
I hereby specification, in	state that I have revicionly state that I have revicionly the claims,	viewed and understood the cont as amended by any amendment	ents of referre	the above-identified d to above.
I acknown this application	wledged the duty to on accordance with	disclose information which is noticed Title 37, Code of Federal Regu	naterial lations,	to the examination of §1.56.
foreign applicat below any forei	tion(s) for patent or it ign application for pa on on which priority	ty benefits under Title 35, Uni inventor's certificate listed belo atent or inventor's certificate has is claimed: Priority Claime	w and laving a	have also identified
5	11 ()	_		
(Number)	(Country)	(Day/Month/Year/Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year/Filed)	Yes	No

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PCT Applications designa	ating the United S	tates:
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)
provisional application(s) application is not disclose paragraph of Title 35, Un which is material to pate	listed below and, ed in the prior Un nited States Code, ntability as defined	tle 35, United States Code, §119(e) of any United States insofar as the subject matter of each of the claims of this ited States application in the manner provided by the first §112, I acknowledge the duty to disclose information d in Title 37, Code of Federal Regulations, §1.56 which f the prior application and the national filing date of this
Provisional Application(s):	
Application Number	Filing Date	Status

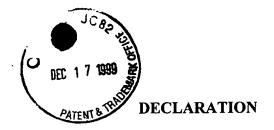
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Filing Date

Application Number

Status

· · · · · · · · · · · · · · · · · · ·
Full name of first inventor Robert S. Langer
Inventor's signatureDate:
Residence 77 Lombard Street, Newton, MA 02158
Citizenship U.S.A.
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge. MA
Full name of second inventor Scott M. Cannizzaro
Inventor's signatureDate:
Residence 24 Tracey Road, Cotuit, MA
Citizenship_U.S.A.
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge. MA
Full name of third inventor Bernhard G. Mueller
Inventor's signatureDate:
Residence Grieustrasse 41, CH-4055 Basel, Switzerland
Citizenship Switzerland
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA
Full name of fourth inventor Kevin Shakesheff
Inventor's signature Kenn Shakahaft Date: 26/11/99.
Residence 44 South Street, Draycott, Derby, United Kingdom
Citizenship Switzerland UNITED K.NGOOM
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA



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MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable):

is atta	ched hereto			
		1999 as Application and amended on		(if applicable).
on	filed as PCT inte	rnational application Nond was amended under PCT if applicable).	Article 1	9
		ewed and understood the cors amended by any amendmer		
I acknowledg	ed the duty to discordance with T	isclose information which is itle 37, Code of Federal Reg	material ulations,	to the examination of §1.56.
foreign application(s) for patent or in pplication for pate which priority is	y benefits under Title 35, Univentor's certificate listed beltent or inventor's certificate list claimed: Priority Claime	ow and l having a	nave also identified
(Number)	(Country)	(Day/Month/Year/Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year/Filed)	Yes	No



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PCT Applications designation	ating the United S	tates:
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)
I hereby claim the	benefit under Ti	tle 35, United States Code, §119(e) of any U

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national filing date of this application.

Provisional Application(s):				
Application Number	Filing Date	Status		
Application Number	Filing Date	Status		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

QE JCO
DEC 1 7 1000 }
Lieb Committee C
Full name of first inventor Robert S. Langer
Inventor's signatureDate:
Residence 77 Lombard Street, Newton, MA 02158
Citizenship U.S.A.
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge. MA
Full name of second inventor Scott M. Cannizzaro
Inventor's signature Sottes Date: Nov. 29 199
Residence 24 Tracey Road, Cotuit, MA
Citizenship U.S.A.
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge. MA
Full name of third inventor Bernhard G. Mueller
Inventor's signatureDate:
Residence Grieustrasse 41, CH-4055 Basel, Switzerland
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MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable):

_X w Se	as filed on <u>May 1</u> 9 erial No. <u>09/314,54</u> 6	9, 1999 as Application O and amended on	(if applicable).
on	vas filed as PCT int	ernational application Noand was amended under PCT	Article 19
I hereby	state that I have rev	viewed and understood the con	tents of the above-identified
I acknow	ledged the duty to	as amended by any amendmen disclose information which is a Title 37, Code of Federal Rega	naterial to the examination of
I hereby foreign applicati below any foreig of the applicatio	claim foreign priorion(s) for patent or general parts of the parts of the priority on which priority	ity benefits under Title 35, Uninventor's certificate listed beloatent or inventor's certificate his claimed:	ited States Code, §119 of any ow and have also identified aving a filing date before that
Prior Foreign Ap	oplication(s):	Priority Claime	d
(Number)	(Country)	(Day/Month/Year/Filed)	Yes No
(Number)	(Country)	(Day/Month/Year/Filed)	Yes No

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(Application Serial No.)	(filing date)	(status-patented, pending, abandoned)
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PCT Applications designation	ating the United S	States:
(PCT Appl. No.)	(U.S.S.N.)	(status-patented, pending, abandoned)
provisional application(s) application is not disclose paragraph of Title 35, Ur which is material to pate	listed below and, ed in the prior United States Code, orability as define	tle 35, United States Code, §119(e) of any United States, insofar as the subject matter of each of the claims of this nited States application in the manner provided by the first §112, I acknowledge the duty to disclose information d in Title 37, Code of Federal Regulations, §1.56 which of the prior application and the national filing date of this
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Application Number	Filing Date	Status
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

ATENTA TRADE
Full name of first inventor Robert S. Lange Trade.
Inventor's signature
Residence 77 Lombard Street, Newton, MA 02158
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Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA
Full name of fourth inventor Kevin Shakesheff
Inventor's signatureDate:
Residence 44 South Street, Draycott, Derby, United Kingdom
Citizenship Switzerland
Post Office Address MIT, Dept. of Chemical Engineering, Room E25-342, Cambridge, MA

Applicant:

Langer et al.

Serial Number:

09/314,540 May 19, 1999

Filed: For:

MODIFICATION OF SURFACES USING BIOLOGICAL

RECOGNITION EVENTS

Assistant Commissioner for Patents Washington, DC 20231

Sir:

ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION (37 CFR 3.73(b))

The assignee of the entire right, title and interest of inventors the Massachusetts

Institute of Technology, hereby seeks to take action in the Patent and Trademark Office in the above matter.

Owner	ship by the assignee is esta	ablished as follows:
	ed in the PTO on	
	Reel	Frame; and
<u>X</u>	documents separately subr	nitted for recordal to the PTO (a copy of these



STATEMENT

I, a person authorized to sign on behalf of the assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is mine/ours as assignees who seek to take further action.

Signature of Authorized Person

Name of Authorized Person

PATENT ADMINISTRATOR
AND OFFICE MANAGER
TECHNOLOGY LICENSING OFFICE

Title of Authorized Person

Exchange.3065308.1

O NE THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Langer, et al.

Serial Number:

09/314,540

Filed:

May 19, 1999

For:

MODIFICATION OF SURFACES USING BIOLOGICAL

RECOGNITION EVENTS

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

APPOINTMENT OF ATTORNEY

The undersigned hereby appoints Brenda Herschbach Jarrell, Registration No. 39,223; Sam Pasternack, Registration No. 29,576; David J. Powsner, Registration No. 31,868; Kevin M. Tormey, Registration No. P-41,351; and Elizabeth Nugent, Registration No. 43,839, as its attorneys and agents for prosecution of matters relating to the above-identified patent application and to conduct all business in the United States Patent and Trademark Office.

All correspondence should be sent to Brenda Herschbach Jarrell, Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109.

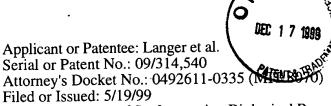
Respectfully submitted,

Name: JARMILA Z. HRBEH

Title: BATENT Homistrator & Office Manage, On behalf of Mass. Inst. of Tech

Dated: Nov 19____, 1999

Exchange.3065313.1



For: Modification of Surfaces using Biological Recognition Events

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION.

Massachusetts Institute of Technology

NAME ADDR	EOF ORGANIZATION: Massachusetts Institute of Technology ESS OF ORGANIZATION: 77 Massachusetts Avenue Cambridge, MA 02139		
ГҮРЕ	OF ORGANIZATION		
(X)	UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION		
()	TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c) (3))		
()	NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE) (CITATION OF STATUTE)		
()	WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c) (3)) IF LOCATED IN THE UNITED STATE OF AMERICA		
()	WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA (NAME OF STATE) (CITATION OF STATUTE)		
I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code with regard to the invention entitled Modification of Surfaces using Biological Recognition Events by inventor(s) Langer et al described in			
()	the specification filed herewith.		
(x)	application serial no. <u>09/314,540</u> , filed <u>5/19/99</u> .		
()	patent no, issued		
I herel	by declare that rights under contract or law have been conveyed to and remain with		

the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9 (c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under CFR 1.9(e). *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME	
ADDRESS()INDIVIDUAL ()SMALL B	USINESS CONCERN () NONPROFIT ORGANIZATION
NAME	
ADDRESS	TO THE ORIGINAL THE
()INDIVIDUAL ()SMALL F	BUSINESS CONCERN ()NONPROFIT ORGANIZATIO

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING

Jarmila Z. Hrbek

TITLE IN ORGANIZATION

Patent Administrator and Office Manager,

Technology Licensing Office

ADDRESS OF PERSON SIGNING

77 Massachusetts Avenue, Room NE25-230 Cambridge, MA 02139

SIGNATURE

DATE

Nav. 19, 199

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Robert S. Langer of Newton, MA, Scott M. Cannizzaroof Cotuit, MA, Bernhard G. Mueller of Basel, Switzerland; and Kevin Shakesheff of Draycott, Derby, U.K., hereby

Sell, assign and transfer to the MASSACHUSETTS INSTITUTE OF.
TECHNOLOGY, having a place of business at 77 Massachusetts Avenue, Cambridge,
Massachusetts, its successors, assigns and legal representatives, all hereinafter referred to as
the ASSIGNEE, our entire right, title and interest for the United States and all foreign
countries, in and to any and all inventions which are disclosed in the application for United
States Letters Patent filed May 19, 1999 Serial No. 09/314,540 entitled "MODIFICATION
OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS and in and to our rights
in said application and all divisional, continuing, substitute, renewal, reissue and all other
applications for Letters Patent which have been or shall be filed in the United States and all
foreign countries on any of said inventions; and in and to all original and reissued patents
which have been or shall be issued in the United States and all foreign countries on said
inventions including the right to apply for patent rights in each foreign country and all rights
to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting our rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated:	Robert S. Langer
Dated:	Witnessed by:
Dated:	Witnessed by:

Dated:	
	Scott M. Cannizzaro
Dated:	Witnessed by:
Dated:	Witnessed by:
Dated:	Bernhard G. Mueller
Dated:	Witnessed by:
Dated:	Witnessed by:
Dated: 26/11/99	Kevin Shakalift. Kevin Shakesheff
Dated: 26 · 11 · 99	Witnessed by:
Dated: 26/4/99.	Witnessed by:

Exchange.3065128.1

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Robert S. Langer of Newton, MA, Scott M. Cannizzaroof Cotuit, MA, Bernhard G. Mueller of Basel, Switzerland; and Kevin Shakesheff of Draycott, Derby, U.K., hereby

Sell, assign and transfer to the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, our entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed May 19, 1999 Serial No. 09/314,540 entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS and in and to our rights in said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting our rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated:

Robert S. Langer

Dated: /

Dated: 12 · 3 · 9 9

Witnessed by:

Witnessed

Dated:	Scott M. Cannizzaro
Dated:	Witnessed by:
Dated:	Witnessed by:
Dated:	Bernhard G. Mueller
Dated:	Witnessed by:
Dated:	Witnessed by:
Dated:	Kevin Shakesheff
Dated:	Witnessed by:
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ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Robert S. Langer of Newton, MA, Scott M. Cannizzaroof Cotuit, MA, Bernhard G. Mueller of Basel, Switzerland; and Kevin Shakesheff of Draycott, Derby, U.K., hereby

Sell, assign and transfer to the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, our entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed May 19, 1999 Serial No. 09/314,540 entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION EVENTS and in and to our rights in said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting our rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated:	Robert S. Langer
Dated:	Witnessed by:
Dated:	Witnessed by:

Dated: <u>Nov. 29,</u>	1999	Scott M. Cannizzaro
Dated: <u>Nov. 29,</u>	1999	Mussa Rickert Theresa Rickert Withoutseld by
Dated: Nov. 29	1999	Witnessed by: Cosmichael Robert
Dated:	·	Bernhard G. Mueller
Dated:		Witnessed by:
Dated:		Witnessed by:
Dated:		Kevin Shakesheff
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		Scott M. Cannizzaro
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Dated:		
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Dated:	12/01/1999	86 lb
		Bernhard G. Mueller
Dated:	12/01/1999	Witnessed by: George George
	- / /	Witnessed by:
Dated:	\$12/01/1999	C. Show Hes
		Witnessed by:
Dated:		
		Kevin Shakesheff
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